

# Colour your LIFEL BISOL Spectrum

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### **BISOL Spectrum**

With respect for our natural surroundings and the architectural legacy in mind, we are introducing exclusive **BISOL Spectrum** photovoltaic modules with coloured glass, whereby you no longer have to compromise aesthetics for efficiency when harnessing the endless power of the sun.

BISOL Spectrum modules were designed not only to conform, but also to refine the architectural traits of buildings and roofs of various types and styles. Available in a wide palette of colours, BISOL Spectrum PV modules can now really become an integral part of the building by either seamlessly blending into the historic character of the building in its natural setting, or by contributing to the manifestation of the building's modern design features. Their unique look allows discreet blending with the scenery, hence preserving the timeless beauty of diverse natural settings. Either way, BISOL Spectrum modules will undoubtedly add a timeless aesthetical value.

### Advantages:









On-roof or BIPV

Made in EU

Available in variety of colours





PID free

for higher profitability

Double







Exellent low light performance



Deep Red



# Terracotta **ORANGE**

Electrical Specifications @ STC (AM1.5, 1,000 W/m<sup>2</sup>, 25 °C)

		Deep Red	Forest Green	Terracotta Orange	Alabaster White	
Module Type	BDO	320	300	280	220	
Nominal Power	P <sub>MPP</sub> [W]	320	300	280	220	
Short Circuit Current	1 <sub>SC</sub> [A]	9.55	9.30	8.30	6.55	
Open Circuit Voltage	$V_{OC}[V]$	41.5	41.1	43.2	40.9	
MPP Current	I <sub>MPP</sub> [A]	9.10	8.70	7.55	6.20	
MPP Voltage	V <sub>MPP</sub> [V]	35.2	34.5	37.1	35.5	
Power Output Tolerance		±3 %				
Maximum Reverse Current		18 A				
Maximum System Voltage		1,500 V (Application Class A)				

Power classes vary depending on colour. I Efficiency at irradiation 200 W/m<sup>2</sup>: 99.3 % of STC efficiency or higher. I Power measurement tolerance:  $\pm 3$  %.





### **Effective Efficiency**









# Alabaster WHITE

### **Thermal Specifications**

Current Temperature Coefficient	а	+ 0.06 %/ °C
Voltage Temperature Coefficient	β	- 0.27 %/°C
Power Temperature Coefficient	γ	- 0.35 %/°C
NOCT		44 ± 2 °C
Temperature range		- 40 °C to + 85 °C

### In compliance with:



Certificates available upon special request. Additional charges may apply.



Alabaster White



# Forest **GREEN**

### **Colour Availability**



The actual colour shades may vary from the images shown. Colour inconsistencies in a module may appear due to the nature of this product.



Forest Green



## **On-Roof Solution**



#### Guarantees:



Linear guarantee 85% output in 25<sup>th</sup> year 25



Roofs represent 20-25% of the total urban area and with photovoltaics, they present an opportunity for sustainable building designs.



### **Mechanical Specifications**

Length x Width x Thickness	BDO: 1,770 x 1,050 x 35 mm BSO: 1,813 mm x 1,075 mm x 25 mm		
Weight	BDO: 20.5 kg / BSO: 21 kg		
Solar Cells	120 Half-Cut mono c-Si / 166 mm x 166 mm		
Junction Box / Connectors / IP	Three bypass diodes / MC4 compatible / IP 68		
Cable Lenght	Default: 1,200 mm On demand (for portrait orientation): 300 mm		
Frame	Standard frame (anodized AL with drainage holes and rigid anchored corners) or BIPV (Solrif®)		
Frame Colour	Any RAL colour code, black or silver		
Back Sheet Colour	Black		
Glass	3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content		
Packaging	BDO: 30 modules per pallet / stackable 3 pallets high BSO: 24 modules per pallet / stackable 2 pallets high		
Impact resistance	Hailstone / $\Phi$ 25 mm / 83 km/h (51 mph)		

### Dimensions





BISOL Spectrum module BDO with standard frame

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Cross section of standard frame



### **Roof-Integrated Solution**

BISOL Spectrum PV modules are also available as a BIPV solution used in roofintegrated applications, that can be more cost effective simply because their composition and location replaces a number of conventional components. The overlapping of the specially framed BIPV modules produces an elegant PV array that completely replaces the conventional roofing. Maximum visual conformity and an unobtrusive appearance of the PV system are achieved by fully matching the colour of the end flashings, making it especially appealing to the eye. Coloured PV modules teamed up with building-integrated trim allow the PV system to fully blend in with even the most particular roof types, offering new possibilities of applying photovoltaic to most delicate historic and listed buildings in conservation areas.



Detail of special BIPV (Solrif®) frame

Dimensions



BISOL Spectrum module with BIPV frame





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**Dealer information** 

"Thanks to the BISOL Spectrum, we now have the possibility to please all our customer concerns. Some of them dislike solar panels because of their aesthetic appearance, while for the majority the return on investment (ROI) is of the highest importance. Now we have the solution that meets both needs – BISOL Spectrum!"

Zonnepanelen Volendam, the Netherlands

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